

# Aluminum Cable Tray

## 5" Straight Sections Series 2-5, 3-5, 4-5

Ladder, Ventilated and Solid Trough

### Straight Section Number Selection

**(AH2-5)-24-L09-144**

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
<b>A</b> • Aluminum	<b>H</b> • H-Beam	<b>2</b> • Series 2 <b>3</b> • Series 3 <b>4</b> • Series 4	<b>5</b> • (5")	<b>06</b> • (6") <b>09</b> • (9") <b>12</b> • (12") <b>18</b> • (18") <b>24</b> • (24") <b>30</b> • (30") <b>36</b> • (36")	<b>L06</b> • 6" rung spacing <b>L09</b> • 9" rung spacing <b>L12</b> • 12" rung spacing <b>V</b> • Ventilated <b>S</b> • Solid Trough	<b>144</b> • (12ft) <b>288</b> • (24ft) <b>3</b> • (3 meters) <b>6</b> • (6 meters)

### Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

#### Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 60 to 99.

SERIES		SUPPORT SPAN (Feet)							
		6	8	10	12	14	16	18	20
<b>AH2-5</b>	Load (lb/ft)	511	288	184	128	94	72	57	46
	Deflection (in.)	0.328	0.584	0.912	1.313	1.787	2.334	2.955	3.648
	Deflection Factor	0.001	0.002	0.005	0.010	0.019	0.032	0.052	0.079
<b>AH3-5</b>	Load (lb/ft)	600	338	216	150	110	84	67	54
	Deflection (in.)	0.313	0.557	0.870	1.253	1.706	2.228	2.820	3.481
	Deflection Factor	0.001	0.002	0.004	0.008	0.015	0.026	0.042	0.064
<b>AH4-5</b>	Load (lb/ft)	844	475	304	211	155	119	94	76
	Deflection (in.)	0.337	0.599	0.936	1.348	1.834	2.396	3.033	3.744
	Deflection Factor	0.004	0.001	0.003	0.006	0.012	0.020	0.032	0.049

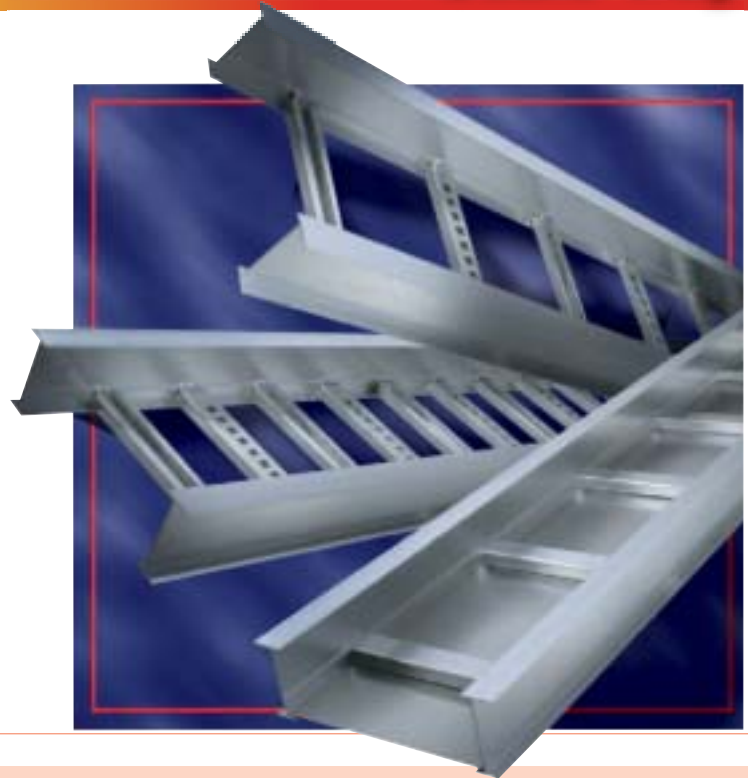
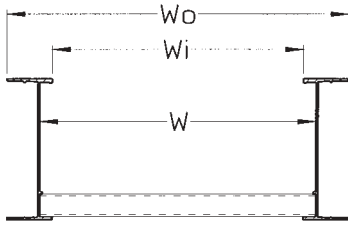
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

# 5" Straight Sections

## Series 2-5, 3-5, 4-5

### Ladder, Ventilated and Solid Trough

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Aluminum Straights

W (in.)	AH2-5		AH3-5		AH4-5	
	W <sub>0</sub> (in.)	W <sub>1</sub> (in.)	W <sub>0</sub> (in.)	W <sub>1</sub> (in.)	W <sub>0</sub> (in.)	W <sub>1</sub> (in.)
6	8.39	4.89	8.43	4.93	8.45	4.95
9	11.39	7.89	11.43	7.93	11.45	7.95
12	14.39	10.89	14.43	10.93	14.45	10.95
18	20.39	16.89	20.43	16.93	20.45	16.95
24	26.39	22.89	26.43	22.93	26.45	22.95
30	32.39	28.89	32.43	28.93	32.45	28.95
36	38.39	34.89	38.43	34.93	38.45	34.95

### Technical Specifications

#### LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
<b>AH2-5</b>		$I_x = 4.54 \text{ in}^4$ $S_x = 1.73 \text{ in}^3$ Area = $1.23 \text{ in}^2$	<b>12C, 16A</b>	<b>D/6m</b>	UL Cross Sectional Area : $1.00 \text{ in}^2$
<b>AH3-5</b>		$I_x = 5.58 \text{ in}^4$ $S_x = 2.13 \text{ in}^3$ Area = $1.52 \text{ in}^2$	<b>20A, 16B</b>	<b>E/3m</b>	UL Cross Sectional Area : $1.50 \text{ in}^2$
<b>AH4-5</b>		$I_x = 7.31 \text{ in}^4$ $S_x = 2.66 \text{ in}^3$ Area = $1.87 \text{ in}^2$	<b>20B, 16C</b>	<b>E/6m</b>	UL Cross Sectional Area : $1.50 \text{ in}^2$